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Workshop No. 6

ROADM in NG Optical Transport Networks

September 21st, 2008, 14:00 - 18:00
Brussels/Belgium

Workshop Objectives

Optical transport network technologies continue to advance at a rapid pace providing additional switching and configuration functions to DWDM based transport platforms enabling increased capacity and flexibility while simultaneously lowering operational costs. Wavelength-selective switching technology is critical for achieving the full potential of NG Optical Transport Networks. Together with ASON/GMPLS control plane functions this technology facilitates implementation of dynamic optical networks enabling many on-demand bandwidth services. Optical network elements with this functionality include Reconfigurable Optical Add Drop Multiplexers (ROADMs) or Optical Cross Connects (OXCs). ROADMs enable carriers to migrate to wavelength centric optical network architectures, to reduce the number of network elements and O-E-O conversions in the network, and to evolve optical networks from SONET/SDH small rings and DWDM point-to-point transmission to flexible data transport on a wavelength with aggregation and grooming at the edges.

This workshop will cover many aspects of ROADM technology and application including the following:

- Review ROADM technology
- Architecture of integrated nodes comprising ROADMs, Ethernet switches, SONET/SDH/OTN XCs
- ROADM – G.709, the missing functions for all optical networking
- ROADM – control plane functions, the enabler for on-demand services
- OOO – G.709, an attempt to an all optical networking dictionary
- Carrier experiences: Application scenarios for ROADMs in carrier networks

Organizers

- Hans-Martin Foisel, Deutsche Telekom, Germany
- Vishnu Shukla, Verizon, USA

Registration

Registration for the workshop is free, but mandatory to get access to the session rooms.
Registration can only be done through the ECOC2008 registration webpage

Contact:

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Program

14:00 – 14:05	Welcome and Introduction Organizers
14:05 – 14:35	Evolutionary and Revolutionary Next Generation ROADMs Dr. Jy Bhardwaj, JDSU
14:35 – 15:05	ROADM Node Architectures for flexible high speed optical Networking Dr. Cornelius Fuerst, Ericsson
15:05 – 15:35	ROADM and its Evolution to integrated Nodes comprising Layer 1 and 2 Switches Dr. Hideo Kuwahara, Fujitsu
15:35 – 16:00	Coffee Break
16:00 – 16:30	OTN Networking over a ROADM based Optical Network Mike Watford, Nortel
16:30 – 17:00	Enhancing ROADM Networks through Control Plane Technology Wes Doonan, Adva
17:00 – 17:30	NG OTN - G.709 Definitions of Optical Transport Networks Dr. Dirk Breuer, Josef Röse, DT
17:30 – 18:00	Carrier Experiences: Application Scenarios for ROADMs in Carrier Networks Dr. Vishnu Shukla, Verizon
18:00	End